

Amendments to the Claims

No claim amendments have been made. This listing of claims is provided for the convenience of the Examiner while considering this Response.

1. (Previously presented) A method for determination of a dynamic property of a fluid volume in a small volume device selected from the group consisting of an array chip, array plate, and array slide, comprising determining the distribution or location or both of at least one light scattering particle in said fluid volume by detecting light scattered from said at least one particle.
2. (Original) The method of claim 1, wherein said dynamic property is flow rate.
3. (Original) The method of claim 1, wherein said dynamic property is particle distribution in said fluid volume.
4. (Original) The method of claim 3, wherein probes are present in said fluid volume and said particle distribution is indicative of the distribution of said probes in said fluid volume.
5. (Original) The method of claim 4, wherein said distribution of probes is on a solid phase surface.
6. (Original) The method of claim 1, wherein said dynamic property is uniformity of drying on a solid surface.
7. (Original) The method of claim 1, wherein said dynamic property is a flow pattern in a device or portion of a device, said device being an article of manufacture including one or more channels or reservoirs for fluid.

8. (Original) The method of claim 7, wherein said dynamic property is fluid mixing being evaluated in one or more portions of said device or through the entire device, said portions being selected from the group consisting of a mixing chamber, a port, a flow channel, a pump, a valve, and a flow channel intersection.

9-13. (Canceled)

14. (Previously presented) The method of claim 1, wherein said small volume device comprises a plurality of features and has deposited on each feature a volume of 10 pL to 10 nL.

15. (Previously presented) The method of claim 1, wherein said small volume device comprises a plurality of features and has deposited on each feature a volume of 10nL-200nL.

16. (Previously presented) The method of claim 1, wherein said small volume device comprises a plurality of features and has deposited on each feature a volume of 200 nL to 2 microliters.

17. (Canceled)

18. (Original) The method of claim 1, wherein said at least one particle comprises a plurality of distinguishable particles.

19. (Original) The method of claim 18, wherein said plurality of distinguishable particles is used to analyze mixing of fluids from two different sources.

20-31. (Canceled)

32. (Previously presented) A method for analyzing fluid flow in at least one portion of a small volume device selected from the group consisting of an array chip,

array plate, and array slide, comprising illuminating a suspension of light scattering particles in at least one portion of said device; and detecting the presence of said light scattering particles as an indication of said fluid flow.

33. (Original) The method of claim 32, wherein a plurality of different light scattering particles are inserted in said device, and said plurality of different particles are detected as an indication of said fluid flow.
34. (Original) The method of claim 32, wherein said at least one portion is a plurality of portions of said device.
35. (Original) The method of claim 32, wherein said flow is detected using extended exposure, whereby said light scattering particles provide flow tracers.